

CONTINUOUS PRODUCTION OF
THERMOPLASTIC POLYURETHANE ELASTOMERS

ABSTRACT OF THE DISCLOSURE

A continuous process for the preparation of a thermoplastic polyurethane elastomer is disclosed. The process is carried out at 130 to 250°C and comprises reacting at least one polyether diol with at least one organic diisocyanate and 1,4-di-(2,2'-hydroxyethyl)-hydroquinone, in the presence of tin dioctoate as a catalyst. The resulting thermoplastic polyurethane has a glass transition temperature (T_g) below 50°C. The inventive thermoplastic polyurethane is suitable for making injection molded or extruded articles.

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